



Applicant: George P. Anderson et al. Art Unit: 1653

Serial No.: 09/811,824 Examiner: Chih Min Kam

Filed : March 20, 2001

Title : INORGANIC PARTICLE CONJUGATES

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b), Massachusetts Institute of Technology, certifies that it is the assignee of 100% of the right, title and interest in the patent application identified above by virtue of:

An assignment from the inventors of the patent application identified above, recorded at the Patent and Trademark Office on December 10, 2003, at reel/frame 014185/0803.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints:

Harold H. Fox	Reg. No. 41,498
Stuart T.F. Huang	Reg. No. 34,184
D. Douglas Price	Reg. No. 24,514
Charles F. Schill	Reg. No. 27,590
Scott D. Watkins	Reg. No. 36,715

of: STEPTOE & JOHNSON LLP 1330 Connecticut Avenue, NW Washington, DC 20036

with full power of substitution and revocation, to prosecute the application and to transact all business in the United States Patent and Trademark Office connected therewith.

Applicant: George P. Anderson et al.

Serial No.: 09/811,824 Filed: March 20, 2001

Page

: 2 of 2

All correspondence regarding the application should be sent to:

# 27890

PTO Customer Number

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Respectfully submitted,

Date: 5/36/04

Rita Filipowicz

Patent Administrator

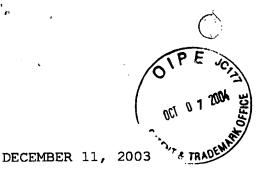
Massachusetts Institute of Technology

Attorney's Docket No.: 14952.0282 / MIT Case 8733

Steptoe & Johnson LLP 1330 Connecticut Avenue, NW Washington, DC 20036-1795 Telephone: 202-429-3000

Facsimile:

202-429-3902





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Weshington, D.C. 20231



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FISH & RICHARDSON P.C. HAROLD H. FOX 1425 K STREET, N.W. 11TH FLOOR WASHINGTON, DC 20005-3500

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

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RECORDATION DATE: 12/10/2003

REEL/FRAME: 014185/0803

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BAWENDI, MOUNGI G.

DOC DATE: 12/08/2003

ASSIGNOR:

SUNDAR, VIKRAM C.

DOC DATE: 12/09/2003

ASSIGNEE:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE CAMBRIDGE, MASSACHUSETTS 02142-1324

SERIAL NUMBER: 09811824

PATENT NUMBER: 09811824

FILING DATE: 03/20/2001

ISSUE DATE:

SERIAL NUMBER: 60190766

FILING DATE: 03/20/2000

PATENT NUMBER:

ISSUE DATE:

014185/0803 PAGE 2

TARA WASHINGTON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS



Substitute Form PTO-1595 Attorney Docket No.: 01997-282001 Client's Ref. No.: MIT Case 8733

# RECORDATION FORM COVER SHEET

Commissioner for Patents: Please record the attached original documen	nt(s) or copy(les).
Name of conveying party(ies):	2. Name and address of receiving party(les):
Moungi G. Bawendi, and Vikram C. Sundar	Massachusetts Institute of Technology
	77 Massachusetts Avenue
Additional name(s) attached? ☐ Yes 図 No	Cambridge, Massachusetts 02142-1324
3. Nature of conveyance:	United States of America
☑ Assignment □ Mørger	
☐ Security Agreement	
☐ Change of Name ☐ Other:	
Execution Date: 12/08/2003; 12/09/2003	Additional names/addresses attachec? ☐ Yes 图 No
4. Application number(s) or patent number(s):	
If this document is being filed with a new application, the execution	date of the application is:
A. Patent Application No(s).:	B: Patent No(s).:
09/811,824 and 60/190,766	
	bached? Di Yes 🗟 No
Name/address of party to whom correspondence concerning document should be mailed:	6. Total number of applications/patents involved: 1
HAROLD H. FOX	7. Total fee (37 CFR §3.41): \$40
Fish & Richardson P.C.	□ Enclosed
1425 K Street, N.W.	33 Authorized to charge Deposit Account.
11th Floor Washington, DC 20005–3500	8. Deposit Account No.: 08-1050
	Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE	THIS SPACE
9. Statement and Signature: To the best of my knowledge and	belief, the foregoing information is true and correct and
any attached copy is a true copy of the original document	t.
Harold H. Fox	12-10-03
Reg. No. 41,498	
Name of Person Signing Signature	Date
Tols	al number of pages including coversheet, attachments and document: 4

### **ASSIGNMENT**

For valuable consideration, we MOUNGI G. BAWENDI of Boston, MA and VIKRAM C. SUNDAR of Hoboken, NJ, hereby assign to Massachusetts Institute of Technology, a corporation of Massachusetts; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent, entitled INORGANIC CHROMOPHORE BIOCONJUGATES, filed March 20, 2000, and assigned U.S. Serial Number 60/190,766, and an application for United States Patent signed by us entitled INORGANIC PARTICLE CONJUGATES, filed March 20, 2001, and assigned U.S. Serial Number 09/811,824, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

In Witness Whereof, I her	reto set my hand and seal at <u>Cambridge</u>
this 8th day of Decem	
W~ (	2. L.S.
MOUNGI G	. BAWENDI
State of Mussachusetts:	
County of Middlesex:	
Before me this 8th	
appeared MOUNGI G. BAWEND	known to me to be the person whose name is subscribed to
the foregoing Assignment and ackr	nowledged that he executed the same as his free act and deed
for the purposes therein contained.	San O Herrin
Die Constitution of the Co	Notary Public  My Commission Expires: Munch 14, 2008
Haoma a pear Tretel	

	IN WITNESS WHEREOF, I hereto set my hand and seal at Yorktown Heights.
this	09 day of December, 2003
uns	L.S.
	VIKRAM C. SUNDAR
State	of New York:
	: ss.
Coun	ty of <u>Westchecter</u> :
	Before me this 9th day of December, 2003, personally
appea	ared VIKRAM C. SUNDAR known to me to be the person whose name is subscribed to the
foreg	oing Assignment and acknowledged that he executed the same as his free act and deed for
	urposes therein contained.
•	Robin Louise Moro
	Notary Public
	My Commission Expires: 7/17/2006
Not	ary's Seal Here]
•	Robin Louisa Moro Notary Public, State of NY No. 01DR045019 County of Westchester Commission Expires July 17, 2008



# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: George P. Anderson et al. Art Unit: 1653

Serial No.: 09/811,824 Examiner: Chih Min Kam

Filed : March 20, 2001

Title : INORGANIC PARTICLE CONJUGATES

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

### REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b), The United States of America as represented by the Secretary of the Navy, certifies that it is the assignee of right, title and interest in the patent application identified above by virtue of:

An assignment from inventors of the patent application identified above, recorded at the Patent and Trademark Office on December 10, 2003, at reel/frame 014185/0908.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints:

Harold H. Fox	Reg. No. 41,498
Stuart T.F. Huang	Reg. No. 34,184
D. Douglas Price	Reg. No. 24,514
Charles F. Schill	Reg. No. 27,590
Scott D. Watkins	Reg. No. 36,715

of: STEPTOE & JOHNSON LLP 1330 Connecticut Avenue, NW Washington, DC 20036

with full power of substitution and revocation, to prosecute the application and to transact all business in the United States Patent and Trademark Office connected therewith.

had ye

Applicant: George P. Anderson et al.

Serial No.: 09/811,824 Filed: March 20, 2001

Page

: 2 of 2

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# 27890

PTO Customer Number

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Respectfully submitted,

Date: 8/2/04

Signed:

Printed Name:

Title:

Noval Reserve Laborator

Attorney's Docket No.: 14952.0282 / MIT Case 8733

Steptoe & Johnson LLP 1330 Connecticut Avenue, NW Washington, DC 20036-1795 Telephone: 202-429-3000

Facsimile:

202-429-3000



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Weshington, D.C. 20231



DE MBER 11, 2003

HAROLD H. FOX
1425 K STREET, N.W.
11TH FLOOR
WASHINGTON, DC 20005-3500

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RECORDATION DATE: 12/10/2003

REEL/FRAME: 014185/0908

NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MATTOUSSI, HEDI

DOC DATE: 12/08/2003

ASSIGNOR:

ANDERSON, GEORGE P.

DOC DATE: 12/08/2003

ASSIGNOR:

MAURO, J. MATTHEW

DOC DATE: 12/08/2003

ASSIGNEE:

UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE NAVE, THE 1000 NAVY PENTAGON WASHINGTON, D.C. 20350-1000 OPK/ASSIGNMENTS

12/11/03 1:57 PAGE 3/4 RightFAX

014185/0908 PAGE 2

SERIAL NUMBER: 09811824

PATENT NUMBER:

SERIAL NUMBER: 60190766

PATENT NUMBER:

FILING DATE: 03/20/2001

ISSUE DATE:

FILING DATE: 03/20/2000

ISSUE DATE:

STEVEN POST, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

RightFAX

**@** 002

Substitute Form PTO-1595 Attorney Docket No.: 01997-282001 Client's Ref. No.: MIT Case 8733

12/10/2003 700056134

RECORDATION FORM COVER SHEET **PATENTS ONLY** 

Commissioner for Patents: Please record the attached original docume	nt(s) or copy(ies).
ommissioner for Patents: Please record the attached original documed Name of conveying party(les): Hedi Mattoussi, George P. Anderson, and J. Matthew Mauro Additional name(s) attached? 口 Yes 图 No 3. Nature of conveyance:	Name and address of receiving party(ies):     The United States of America as represented by the Secretary of the Nave 1000 Navy Pentagon     Washington, DC 20350-1000
■ Assignment     Merger     □ Security Agreement     □ Change of Name     □ Other:	Additional names/addresses attached? ☐ Yes 题 No
Execution Date: 12/08/2003	Acceptable in the second secon
4. Application number(s) or patent number(s):  If this document is being filed with a new application, the execution  A. Patent Application No(s).:  09/811,824 and 60/190,766	B: Patent No(s).:
	ttached? ☐ Yes 図 No
Name/address of party to whom correspondence concerning document should be mailed:	6. Total number of applications/patents involved: 1
HAROLD H. FOX Fish & Richardson P.C. 1425 K Street, N.W. 11th Floor Washington, DC 20005-3500	7. Total fee (37 CFR §3.41): \$40  II Enclosed III Authorized to charge Deposit Account.  8. Deposit Account No.: 06-1050  Please apply any additional charges, or any credits, to our Deposit Account No. 08-1050.
DO NOT US	E THIS SPACE
	d belief, the foregoing information is true and correct and
Harold H. Fox Reg. No. 41,498 Name of Person Signing Signature	Otal number of pages including coversheet, attachments and document:5
ι τ	oral number of pages including coverences, attack theres and cocuments

40192349.doc

### **ASSIGNMENT**

For valuable consideration, we, GEORGE P. ANDERSON of Lanham, MD, HEDI MATTOUSSI of Alexandria, VA, and J. MATTHEW MAURO of Silver Spring, MD, hereby assign to: The United States of America as represented by the Secretary of the Navy, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent, entitled **INORGANIC CHROMOPHORE** BIOCONJUGATES, filed March 20, 2000, and assigned U.S. Serial Number 60/190,766, and an application for United States Patent signed by us entitled **INORGANIC PARTICLE** CONJUGATES, filed March 20, 2001, and assigned U.S. Serial Number 09/811,824, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto s	set my hand and seal at Nauel Research Jab
this day of Documents day of Documents GEORGE P. ANI	Indian L.S.
State of Columbia: SS.	# # # # # # # # # # # # # # # # # # #
Before me this day appeared <u>GEORGE P. ANDERSON</u> kn	of <u>December</u> , 20 <u>63</u> , personally sown to me to be the person whose name is subscribed to edged that he executed the same as his free act and deed
for the purposes therein contained.	1182
Notary's Seal Here]	Notary Public  My Commission Expires:
NOTARY Seal Here]	

IN WITNESS WHEREOF, I here	to set my hand and seal at Monet Reach	. Lak
this standay of Decem	Den , 20 03	
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HEDI MATT	oussi 4	
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State of Whatington:	1	
:		
Datrict of Columbia:		
County of :		
	20 03	nerconally
	day of <u>December</u> 20 <u>03</u>	
	n to me to be the person whose name is subscr	
foregoing Assignment and acknowle	dged that he executed the same as his free act	and deed for
the purposes therein contained.		
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	7	
on the state of th	Notary Public	
The state of the s	My Commission Expires:	
NOTARY	111y Outside = 11p= 101	
[Notary's Seal Here]		
EG PUBLIC SE	•	
THE OF COLUMN		
· Control Control		
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IN WITNESS WHEREOF, I hereto set my hand and seal at	8:55	A.M,
this 8 TH day of December, 2003  J. MATTHEW MAURO		L.S.
J. MIXI THEW MIXURO		
State of Oregon:		
County of Lane:		
Before me this 8th day of December,	20 <u>03</u>	personally
appeared J. MATTHEW MAURO known to me to be the person wh	ose name i	s subscribed to
the foregoing Assignment and acknowledged that he executed the sar	ne as his fr	ee act and deed
for the purposes therein contained.		
OFFICIAL SEAL CHERYL HOWARD NOTARY PUBLIC - OPEGON Notary Public	towar	

40191658.doc